

Parker Product Datasheet



Polyurethane's 3 specific materials - ether, ester and food-grade 'crystal' - offer excellent flexibility and outstanding use in a wide range of applications, allowing for up to 50% space reduction when compared to semi-rigid PA tubing.

PART NUMBER: 2010U04 01

COLOR: BLACK

TUBE O.D. (MM): 4

TUBING MATERIAL: PU

LENGTH (M): 1000

TUBE I.D. (MM): 2,5

PRODUCT OVERVIEW

Polyurethane's 3 specific materials - ether, ester and food-grade 'crystal' - offer excellent flexibility and outstanding use in a wide range of applications, allowing for up to 50% space reduction when compared to semi-rigid PA tubing.

Features/Benefits:

- Excellent Mechanical Properties

- Consistent tensile strength for optimum longevity
- Optimal bend radius
- Good vibration absorption
- Unsurpassed abrasion resistance for a single layer tubing
- UV-resistant

- Superior vacuum capability due to surface hardness
- Remaining length marking
- Silicone-free

- 3 Material Grades

- PU ester: perfect for pneumatic applications
- PU ether: no water absorption; superior chemical resistance to PU ester
- PU ether food-grade 'crystal':

identification of fluids and circuits

chemical resistance superior to PU ether

improved longevity

Markets:

- Food and Beverage
- Miscellaneous Manufacturing
- Factory Automation
- Vehicle Assembly Facilities

Applications:

- Compressed Air and Industrial Fluids Conveying
- Standard Pneumatic Applications Requiring Rapid Cycles
- Applications Subjected to Water and High Humidity (PU ether)
- Suitable for Vacuum Applications

Technologies:

- PU Tubing
- Polyurethane Tubing
- Industrial Tubing

Technical Characteristics:

- Fluids: Compressed air, industrial fluids (depending on the material type)
- Materials: Polyurethane ester, Polyurethane ether, Polyurethane ether food-grade 'crystal'
- Pressure: Vacuum to 12 bar
- Temperature: -20°C to +70°C

Regulations:

Industrial

- DI: 2002/95/EC (RoHS), 2011/65/EC
- DI: 97/23/EC (PED)
- RG: 1907/2006 (REACH)

Food (PU ether food-grade 'crystal')

- FDA: 21 CFR 177.2600, 178.3297, 176.170, 178.2010
- RG: 1935/2004 EC

Product Types:

- Polyurethane Ester Tubing
- Polyurethane Ether Tubing

TECH SPECIFICATIONS

NUMBER OF TUBES	1
SPECIFICATIONS MET	PED 97/23/EC (Industrial)
WEIGHT	11 kg/package
SPECIFICATIONS MET	RG: 1935/2004 EC (Food - PU ether food-grade 'crystal')
MINIMUM OPERATING TEMPERATURE	-20 °C
VACUUM PRESSURE RATING	755 mm-Hg
SPECIFICATIONS MET	REACH 1907/2006 (Industrial)
SPECIFICATIONS MET	FDA 21 CFR 177.2600, 178.3297, 176.170, 178.2010 (Food - PU ether food-grade 'crystal')
MAXIMUM OPERATING TEMPERATURE	70 °C
MEDIA	Industrial Fluids (depending on the material type)
APPLICATION	In-Plant Automotive
MAXIMUM OPERATING PRESSURE	12 bar
APPLICATION	Pneumatics

APPLICATION	Rapid Cycles
APPLICATION	Robotics
DIVISION	Low Pressure Connectors Europe Division
APPLICATION	Food Processing
MEDIA	Air (Compressed Air)
APPLICATION	Cabling
SPECIFICATIONS MET	RoHS 2002/95/EC, 2011/65/EC (Industrial)
APPLICATION	Automation